Fenestra

RESIDENTIAL WINDOWS

A. I. A. File No. 16-e-l

Fenestra

RESIDENTIAL WINDOWS

Made by

DETROIT STEEL PRODUCTS COMPANY
2250 East Grand Boulevard .. .. Detroit

Fenestra

RESIDENTIAL WINDOWS

Residence of Mr. H. A. Mumma, Bronxville, N.Y. Designed by Geo. F. Root, III. Built by F. E. Hermanns.

FENESTRA CASEMENTS

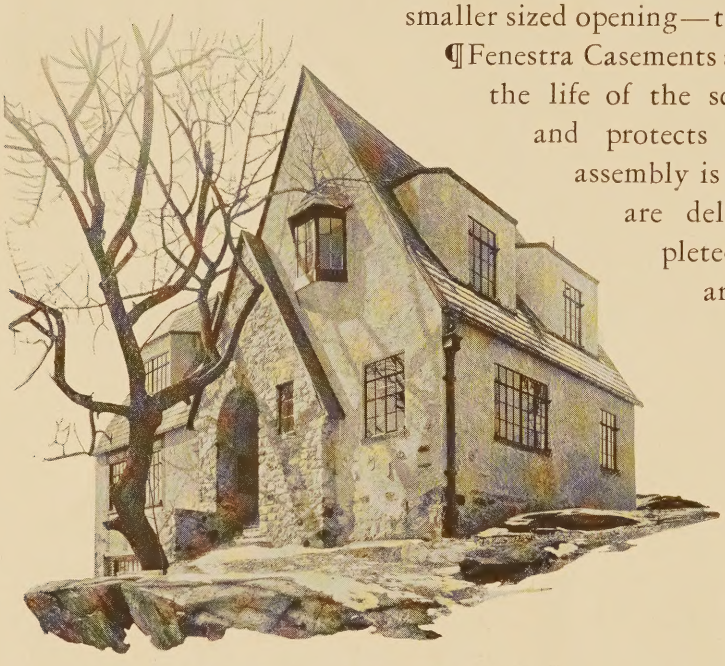
The Architectural Division of the Detroit Steel Products Company presents FENESTRA STEEL CASEMENTS, an attractive series of window designs arranged especially for residences and apartments.

Fenestra Casements have all the charm of the fine old windows so intimately associated with the history, romance and beauty of European architecture. They have the domestic atmosphere created by small panes and narrow muntins; the cheerful freedom of wide out-swinging leaves; and above all, the practical operating and weathering qualities of the best English casement designs.

By the careful standardization of types and sizes, these beautiful windows have been brought within the means of every one. In fact, their cost compares favorably with that of ordinary wooden windows.

Those who know windows, not merely as decorative and useful, but as the gracious expression of a cheerful, comfortable home, will be interested in the Fenestra advantages which follow:

Fenestra Casements are at once artistic and practical, attractive and convenient. ¶They lend an air of refinement and hominess. ¶Being made from bars of solid steel, they are fire-proof; never warp, swell, shrink, stick, or rattle. Their operation is always free and unobstructed. ¶Their sturdy steel construction gives them exceptional durability. They do not rot or decay. ¶They provide controlled ventilation. When the wind is directly toward the window, the leaves may be opened wide to receive the full effect of the breeze. When the wind is parallel to the window, one leaf open 45° will deflect the breeze directly inside. ¶The swinging sections close against the frame with a wide, flat, two-point contact, which forms an absolute protection against storms. ¶Solid steel construction, and strong welded corners make possible the use of narrow muntins and framing members, thereby increasing the area of glass. ¶As compared to wood windows, Fenestra Casements admit more light through the same sized opening — or the same amount of light through a smaller sized opening—thus conserving valuable wall space. ¶Fenestra Casements screen on the inside. This prolongs the life of the screen, keeps the windows cleaner and protects curtains and draperies. ¶Their assembly is finished before shipment and they are delivered ready to install as completed units (hardware separate). ¶They are easily and quickly erected in any type of residential or apartment construction including brick, brick veneer, stucco, stone, or wood. ¶They are standardized in types and sizes which admit of variations sufficient for any ordinary building needs. ¶Their cost is little, if any, greater than the cost of good wood sash and frames.



Residence in Larchmont Gardens, Mamaroneck, N.Y.
Designed and built by John R. Corbin Co.

SPECIFICATIONS

Steel casements as shown, shall be Fenestra of the types and sizes made by the Detroit Steel Products Company.

All members shall be of solid, low-carbon, steel bars interlocked at intersections and all frame members shall be both pivot ended and welded at all corners.

All side-hung swing leaves shall be supplied with extension or cleaning hinges riveted and welded in place and equipped with removable bronze hinge pins fitted accurately into eccentric bronze bushings so designed as to provide in or out adjustment. All hinge pins to be held by bronze set screws accessible only from inside the building. Locking handles to be malleable iron (or bronze) attached by bronze bolts. Spring friction clevises to be supplied on all casement handles to prevent loosening. Fenestra peg and stay or sliding stay operators of malleable iron to be supplied (unless Underscreen operator is desired).

All top hung casements shall be equipped with pin hinges with butt leaves riveted and welded in place and shall be operated by Fenestra malleable iron stay bars.

All handle brackets and stay brackets shall be solidly welded in place.

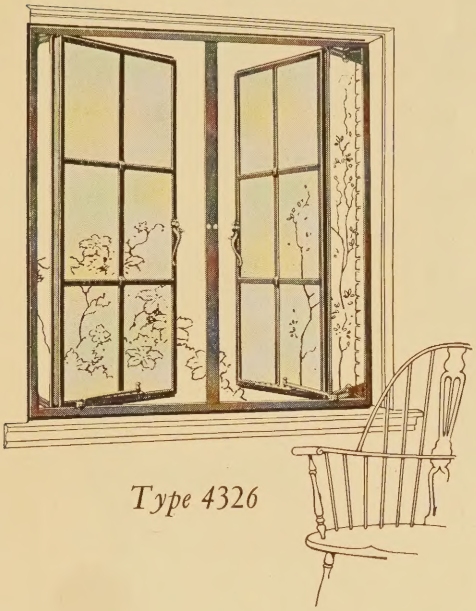
All hardware shall be shipped unattached, carefully packed to prevent injury until ready for use.

Mastic to be supplied by the casement manufacturer without extra charge in sufficient quantities for use at head, jambs and sill of all casements in accordance with Fenestra standard installation details.

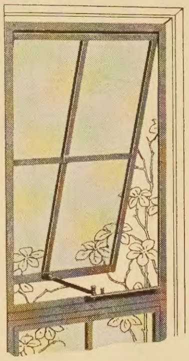
All glass shall be set in special steel casement putty and held with spring glazing clips furnished by the casement manufacturer.

All casements to be given one dip coat of gray mineral paint before shipment.

SINGLE AND MULTIPLE UNITS

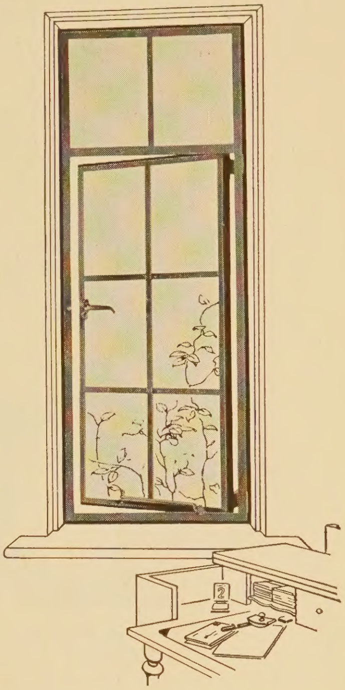


Type 4326



Type 2214 T.H.

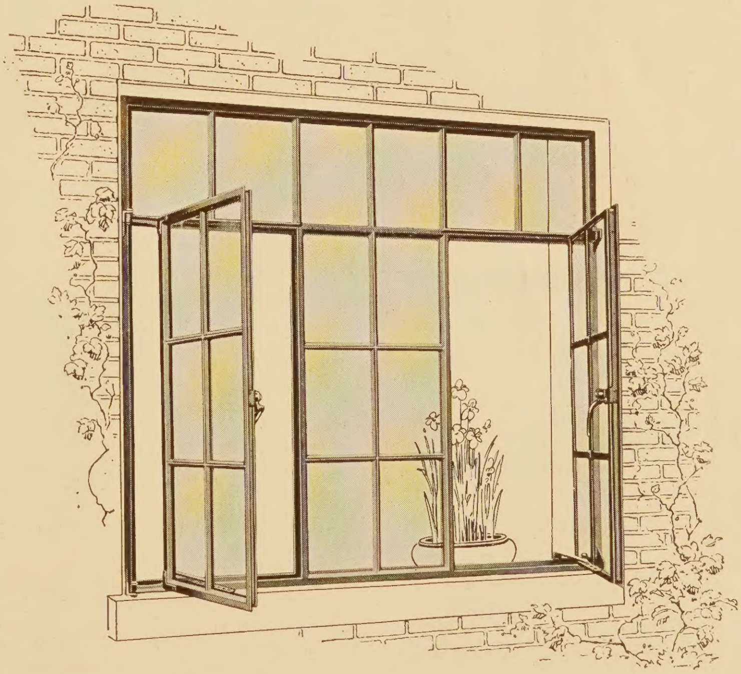
Transom Unit, Top Hung, supplied in this size only. Especially desirable in kitchens or for night ventilation in bed chambers.



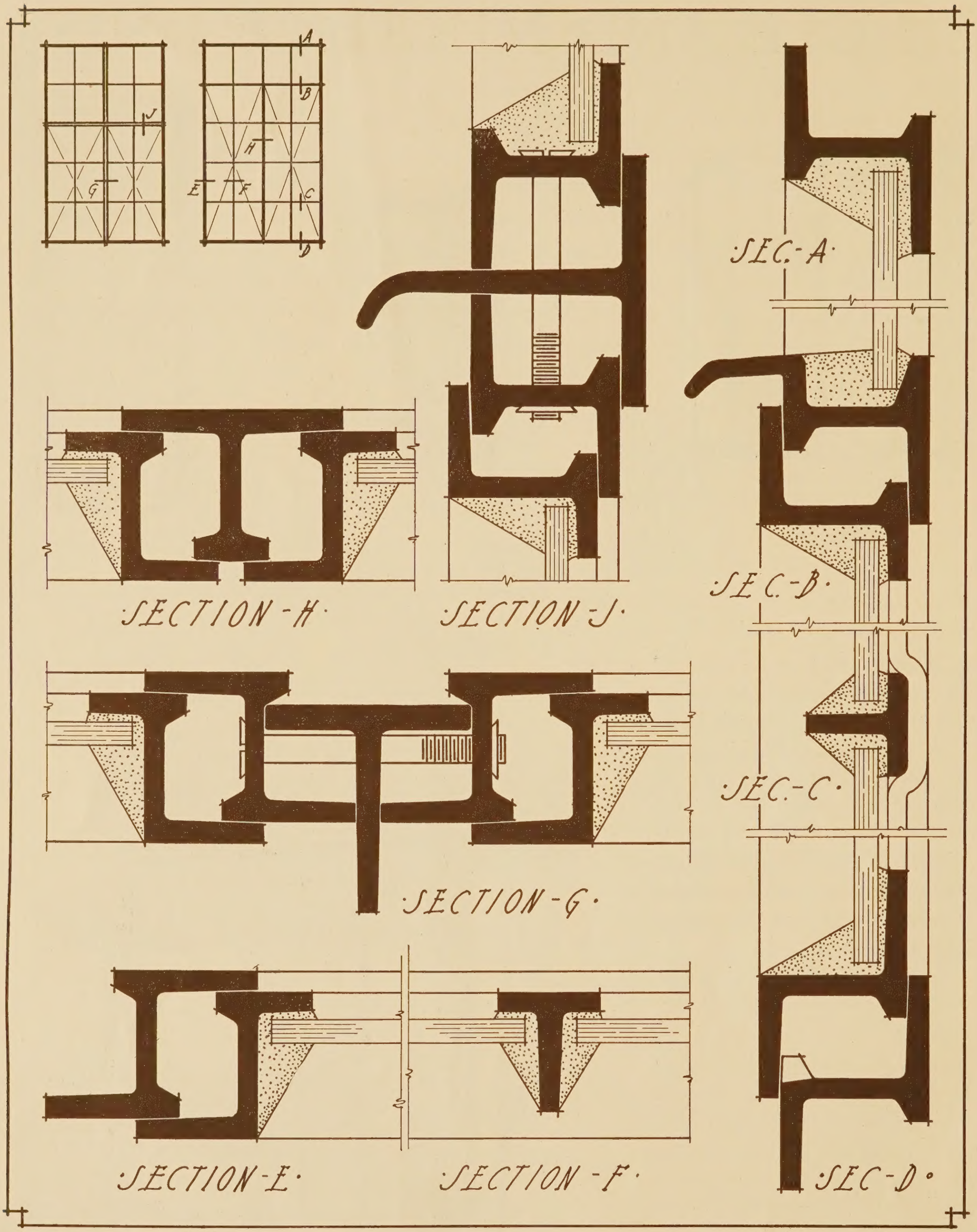
Type 2416 L

HERE are four of the 47 stock types and sizes shown on page 8. Single units such as Type 2416L are made to open either right or left and are designated "R" or "L" as the case may be. Double units, such as Type 4326 are also made with either half the window fixed and the other half ventilated.

It is impossible to combine two or more two-light wide transom units, such as Type 2214 T. H., and use them with mullions over a double unit like 4326 or a triple unit like 6426. Wherever a transom unit is used, the window below it must be of the same overall width, but any unit and transom may be combined with other similar pairs to form a bay.



Type 6426



Fenestra
CASEMENT
WINDOWS

CASEMENT · SECTIONS

DETROIT · STEEL · PRODUCTS · CO. — DETROIT · MICH.

Plate No
A 5001
SCALE - FULL SIZE

DETAILS *of* CONSTRUCTION

The Fenestra Trademark, for twenty years the symbol of steel window quality, is stamped on the inside face of every Fenestra hinge. This provides an absolute means of identification without giving the trade mark undue prominence.

Sections

Fenestra Casement sections are especially designed for this window and are similar in appearance to English casement sections. All sections are hot rolled from solid steel bars and have heavy fillets at all corners to increase rigidity.

Both the framing members and swing leaves are Z-bars pivot ended and electrically welded at all corners and then ground to a smooth and even finish. Meeting rail (page 4, Section J) is a solid rolled T section with web bent to form a drip.

Weathering

Fenestra Casements are designed with especial care to prevent the entrance of weather. 1. All swing leaves open *outward*, and therefore overlap the frame on the outside when closed. 2. Each swing leaf meets the frame with a two-point, broad, flat weathering contact all around the opening. 3. When closed, the swing leaves are drawn up tight and held firmly against the frame by the cam action of the locking device, which is especially designed for this purpose. 4. The outer edge of the frame is formed into a ridge or "lip" which acts as a baffle weathering and increases the contact surface.

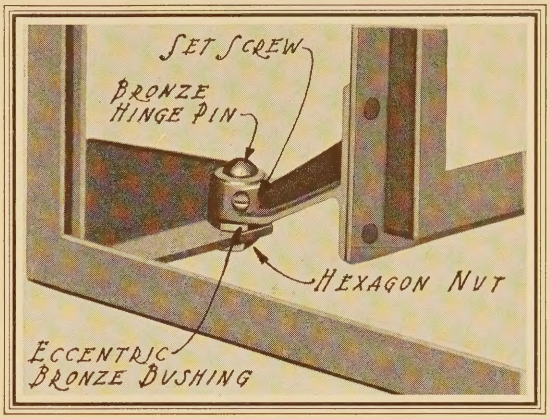
By actual test, Fenestra Steel Casements are as weather-tight as double hung wood windows, *weather-stripped*.

Hinges

Each Fenestra Casement leaf swings on two heavy steel extension hinges. The hinge member attached to the swing leaf is a drop forging which is riveted to both stile and rail. The hinge member which attaches to the frame is a hot-rolled steel angle section with heavy fillet in the corner. Being first riveted and then solidly welded to the frame, both hinges become an integral part of the casement itself with exceptional durability and strength.

Bronze Bearing Hinges

Fenestra Casements have an exclusive advantage in that hinge pins in both top and bottom hinges are of solid bronze having their bearing in eccentric bronze bushings. This contact of bronze against bronze does away with any possibility of rust.



Each eccentric bushing has a hexagon shaped head and terminates in a hexagon shaped nut. It is designed so that the hole through the bushing is "off center." Thus, by loosening the nut and turning the bushing slightly, the hinge pin and hence the casement leaf itself is drawn closer to the frame or pushed farther away as the need may be.

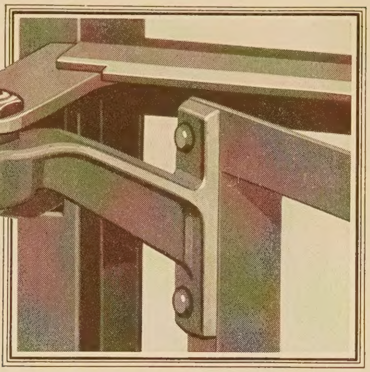
Both upper and lower hinge pins are removable, but by taking out only the lower pin, the swing leaf may be lifted from the frame. Although removable, each hinge pin is locked in place by a set screw accessible only from the inside when the swing leaf is open.

Locking Device

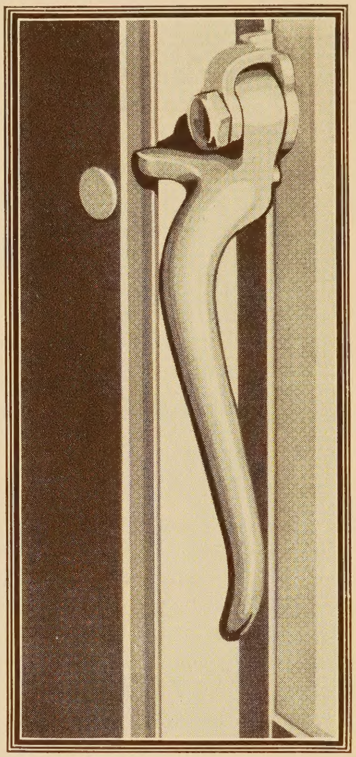
The locking device is usually located below the center of the swing leaf. Here part of the swing leaf is notched to receive a ⅛″ solid steel bracket which is welded in place. To this bracket is attached the handle which is held in place by a bronze hexagon bolt tap-screwed into a spring friction clevis. This clevis provides wide friction surfaces so that the constant operation of the handle cannot cause it to become loose.

The standard Fenestra handle is made of malleable iron with a dull black, rust retarding finish. Bronze handles of dark oxidized finish, are optional at slight extra cost (page 6). In design, they follow the English types and close against neat bronze strike plates which save the surface of the window frame and permit replacement should they become worn after many years of use. The handle closing against the strike plate provides a cam action which draws the swing leaf tight against the frame. A notch in the head

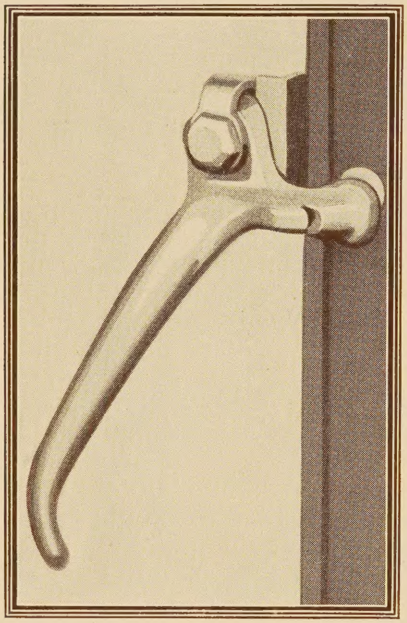
FENESTRA CASEMENT HARDWARE



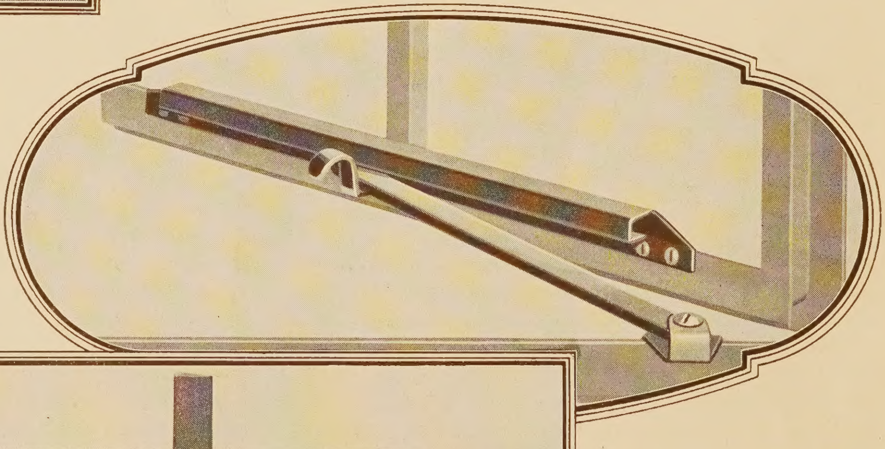
Standard Fenestra Extension Hinge designed to permit exterior cleaning from inside the room



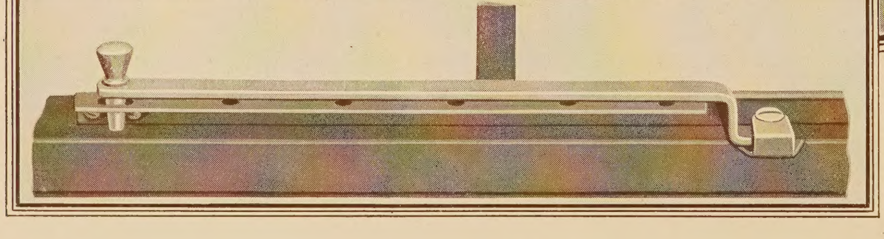
Fenestra Cam Handles, either bronze or malleable iron, are notched to hold swing-leaves slightly open, as shown, providing moderate ventilation



Fenestra Bronze Cam Handle supplied at extra cost where specified. Handle of same design but in malleable iron supplied as standard without extra charge unless Bronze Handles are specified



Fenestra Sliding Stay, automatically locks casement leaf in any desired position. Supplied without extra charge in iron. (Bronze extra.)



Fenestra Peg and Stay supplied in malleable iron without extra charge. (Bronze extra.)

of the handle may be used to engage the window frame and hold the leaf firmly when a very restricted opening is desired.

Fenestra Stay Bars

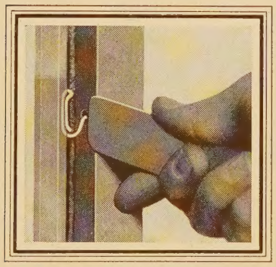
Either of the two types of Fenestra Stay shown on page 6 may be used to hold the swing leaves open in any desired position. A stay bracket of ⅛″ solid steel is welded to the frame member below the sill of each swing leaf. To this bracket either stay may be attached without extra fittings.

The Fenestra Peg and Stay consists of a flat arm 10″ long (except on one-light-wide casements) terminating in a turned bronze peg. This peg engages holes in a stay plate tap-screwed to the sill of the swing leaf so that varying degrees of opening may be secured. By disengaging the stay the casement leaf may be opened 180 degrees so that it lies flat against the building wall.

The Fenestra Sliding Stay consists of a flat arm with a finger-lift near its outer end. This arm terminates in a peg which is confined in a specially designed bracket, into the holes of which the peg is forced by a concealed spring. A light upward pressure under the finger lift compresses the spring, releases the peg and allows the leaf to swing to any desired position. There it locks automatically, and is held firmly until you wish it released. The Fenestra Sliding Stay is supplied in place of the Peg and Stay without extra cost if specified with the order.

Both Peg and Stay and Sliding Stay are supplied in a dull black finish, bronze finish being optional at slight extra cost.

Glazing Fenestra Casements



Glass sizes for Fenestra Casements are shown on page 8. Plate glass is desirable, and can be supplied by us together with Fenestra Casement putty. Double strength clear glass may be used but single strength glass is not recommended under any circumstances.

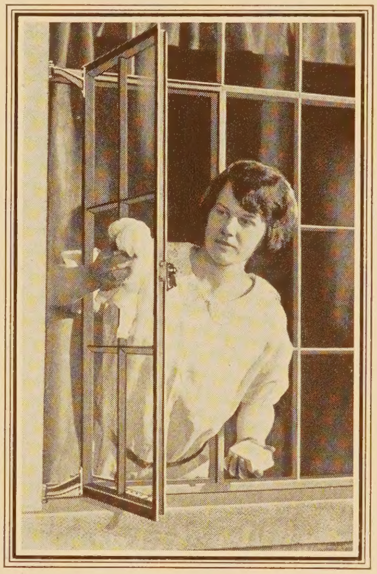
The casement leaves may be removed for glazing, by loosening the set screw on the inside of the upper butt and lifting the leaf from the opening. When this is done each leaf must be replaced in the same opening from which it is removed. Each leaf is carefully fitted and hand weathered at the factory and will not weather properly in any opening other than the one for which it was intended.

Glass is inserted from the outside, the rebates being bed puttied, the glass set and held with spring clips (two for each light supplied without extra charge) and then face puttied.

Casement putty, obtainable from Fenestra dealers, glasshouses or our own warehouses should be used. Casement putty furnished by Fenestra warehouses comes in 25-lb., 50-lb., or 100-lb. tins and contains litharge to insure its setting up to the proper degree of hardness. About one-half pound is required per square foot of window area.

Ordinary wood sash putty must not be used for steel casements.

Easily Washed From The Inside



One of the refinements especially appealing to housewives in the ease and convenience with which the glass in Fenestra Casements may be washed on the outside without the inconvenience of sitting on the sill or leaning out over the top.

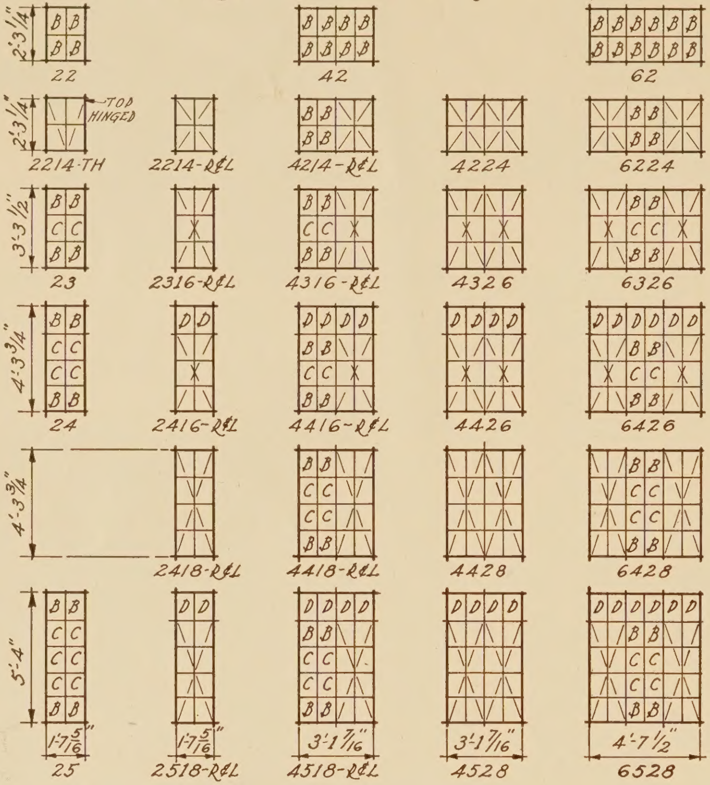
Extension hinges, supplied as standard on all Fenestra Casements, allow the jamb member of the movable portion to swing away from the frame as the casement opens. This leaves an aperture of 4″ to 5″—ample space through which the outside of every pane may be reached without difficulty. This easy washing feature is particularly appreciated where the casements are one or more stories above the ground.

Fixed Transom an Advantage

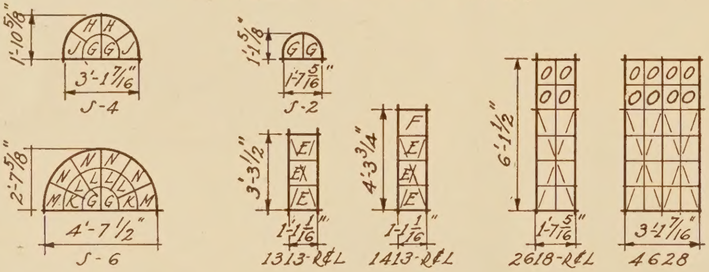
Fenestra Casements with a one-light high fixed transom above the swing leaves have numerous advantages that are well worth considering. These types are shown on page 8—four lights high with three-light high swing leaves; or five lights high with four-light high swing leaves.

These fixed lights at the head frequently obviate the need of separate transom units and they also tend to improve the weathering. They make possible the use of open-in screens without interfering with draperies or valances, and prevent roller shades from flapping whenever the swing leaves are

STANDARD STOCK TYPES



MISCELLANEOUS TYPES



COMBINATION OF UNITS

HEIGHTS

STANDARD HEIGHTS	PANES HIGH	UNITS HIGH	PANES HIGH PER UNIT	HOR. MULL.
2'-3 1/4"	2	1	2	0
3'-3 1/2"	3	1	3	0
4'-3 3/4"	4	1	4	0
4'-6 5/8"	4	2	2,2	1
5'-4"	5	1	5	0
5'-6 7/8"	5	2	3,2	1
6'-7 1/8"	6	2	3,3	1
6'-7 1/8"	6	2	4,2	1
7'-7 3/8"	7	2	4,3	1
8'-7 5/8"	8	2	4,4	1

WIDTHS

STANDARD WIDTHS	PANES WIDE	UNITS WIDE	PANES WIDE PER UNIT	VERT. MULL.
1'-7 5/16"	2	1	2	0
3'-1 7/16"	4	1	4	0
3'-2 3/4"	4	2	2,2	1
4'-7 1/2"	6	1	6	0
4'-10 3/16"	6	3	2,2,2	2
6'-3"	8	2	4,4	1
6'-4 5/16"	8	3	2,4,2	2
6'-5 5/8"	8	4	2,2,2,2	3
7'-10 3/8"	10	3	2,6,2	2
7'-10 7/16"	10	3	4,2,4	2
8'-1 1/16"	10	5	2,2,2,2,2	4

GLASS SIZES

	PANES UNLETTERED — 8" × 12"
B	PANES — 8 11/16" × 12 5/8"
C	PANES — 8 11/16" × 12"
D	PANES — 8 11/16" × 11 3/4"
E	PANES — 10" × 12"
F	PANES — 11" × 11 3/4"
O	PANES — 8 11/16" × 10 1/2"

PANES "G, H, J, K, L, M & N" WILL BE CUT FROM TEMPLATES.

NOTE — A LEFT HAND WINDOW IS ONE WHICH, VIEWED FROM THE OUTSIDE, HAS ITS HINGES ON THE LEFT SIDE — A RIGHT HAND WINDOW, VIEWED FROM THE OUTSIDE HAS ITS HINGES ON THE RIGHT SIDE. — ALWAYS SPECIFY "RIGHT" OR "LEFT". "R" AND "L" INDICATES SWING LEAF IS EITHER RIGHT OR LEFT.

ANY HEIGHT MAY BE COMBINED WITH ANY WIDTH. SUPPOSE YOU WANT TO FILL AN OPENING 5'-6 7/8" HIGH BY 6'-3" WIDE. — FIRST FIND THESE DIMENSIONS IN THE LEFT HAND COLUMN UNDER "COMBINATION OF UNITS." THEN IN THE COLUMNS AT THE RIGHT YOU WILL FIND THAT YOU NEED A THREE PANE HIGH UNIT WITH A TWO PANE HIGH UNIT ABOVE IT TO MAKE THE HEIGHT, AND TWO UNITS, EACH FOUR PANES WIDE TO MAKE UP THE WIDTH. — IN OTHER WORDS TWO UNITS 4224 AND TWO 4326 AS SHOWN ABOVE WITH ONE VERTICAL AND ONE HORIZONTAL MULLION.

Fenestra
CASEMENT
WINDOWS

TYPES AND SIZES

DETROIT STEEL PRODUCTS CO — DETROIT MICH

Plate No
A 5002

opened. Naturally, these individual units with fixed panes at the head cost much less than any combination of fixed or swing units which involves the use of horizontal mullions.

Copper Drip at the Head

We strongly recommend the use of a continuous copper drip across the top of all casements where the swing leaves come to the head. This drip, supplied at moderate extra cost, can be shipped with the casements when specified. No bolts or screws are necessary. It is merely wedged over the top of the head section and when the casement is set in place the drip is held firmly by the masonry above it. (Fig. 1.)

The Continuous Fin at Jambs

Where Fenestra Casements are to be installed directly into masonry we recommend the use of continuous steel fins at the head and jambs to give deeper anchorage in the building wall. These fins are continuous steel angles, running the entire height and width of the casement. (Fig. 2.)

They are shipped separately but are easily bolted in place through holes provided in the jamb bars of the casement frame. The additional cost of the continuous fin is very little, especially if it is included in the specification at the time the order is taken.

Warehouse Types

Warehouse types of Fenestra Casements are shown on page 8. Any of these may be combined, side by side or one above another by the use of Fenestra vertical or horizontal mullions.

Note Type 2214 TH (Top Hung). This is frequently used as a transom over side hung units and is especially desirable in bedrooms where moderate night ventilation is required.

Where Fenestra Casements are used one above another, the units immediately below the horizontal mullion should be chosen from types in which the swing leaf comes to the head.

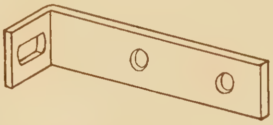
Where leaded glass or one large pane of plate glass is desired instead of the small panes shown as standard, interior muntins may be omitted at slight extra cost provided this item is specified at the time the order is placed. We do not supply leaded glass.

Fenestra Casements are particularly adapted to erection in prepared openings. Openings, correct in size, based on window dimensions plus sufficient clearances, and of a design characteristic for that particular type of construction should be provided.

If casements are to be installed direct into masonry construction, wood double headers should be used over the window opening and wood blocks imbedded at the jambs or some other means provided for attaching screen molding or interior trim.

Erection

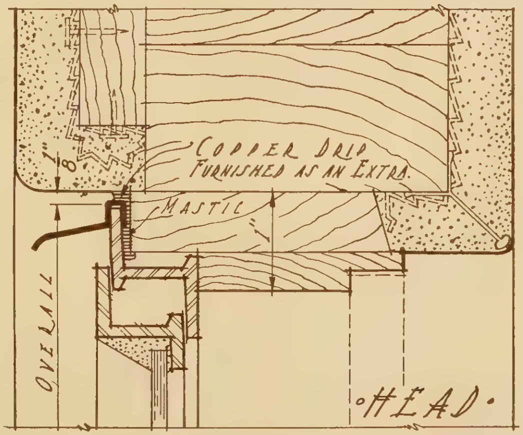
Complete installation instructions accompany each shipment of Fenestra Casements to guide local contractors in erecting them. Where desired, erection will be handled by Fenestra Construction Company, under a separate contract.



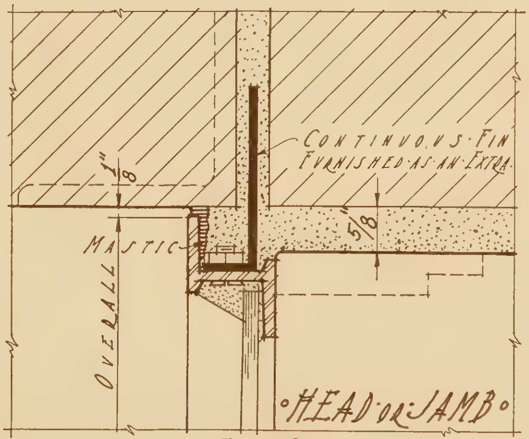
Sill Anchor Clips in this form are shipped separately for attachment in the field. After attachment they may be bent to any desirable angle as shown on pages 10 and 14

Mastic

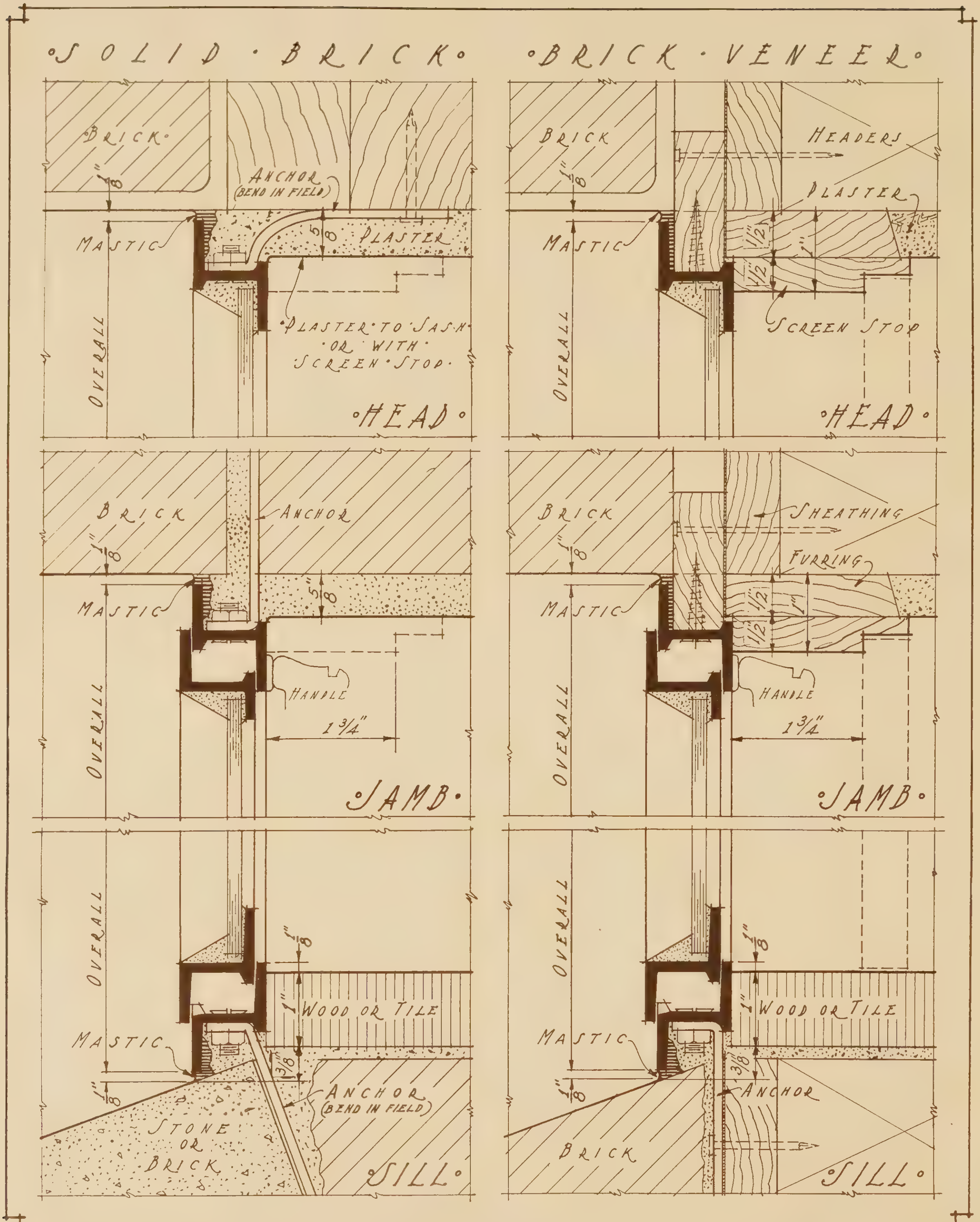
All Fenestra Casements are intended to set up in mastic as shown in the installation details. A sufficient quantity of mastic is supplied without extra charge as are also the necessary sill anchors, mullion bolts, and wood screws.



•FIG·1•



•FIG·2•

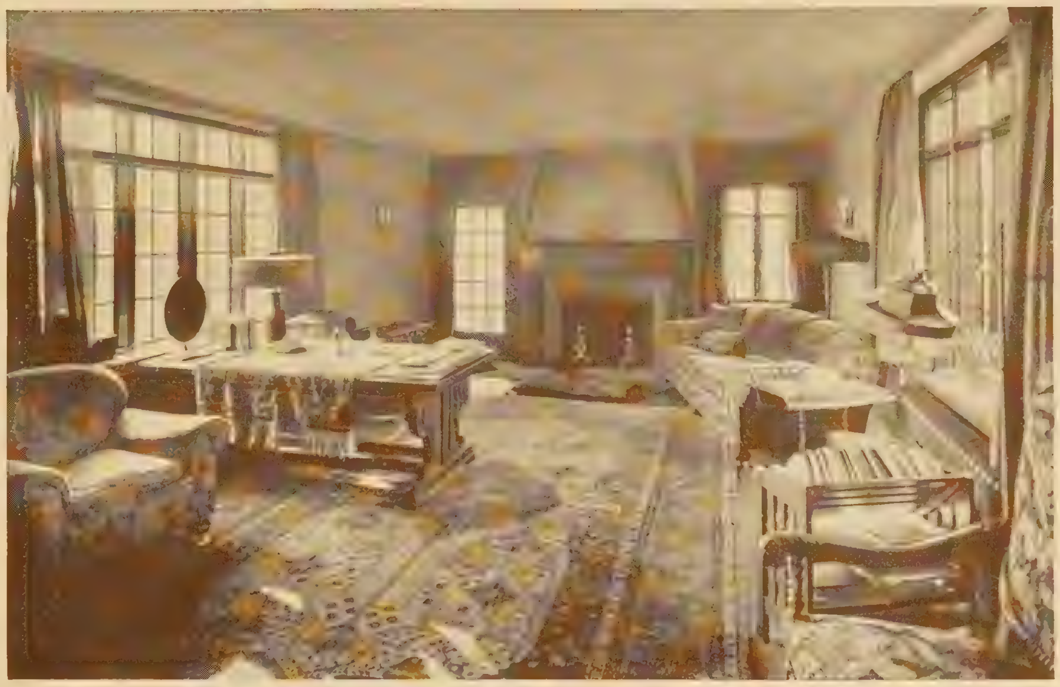


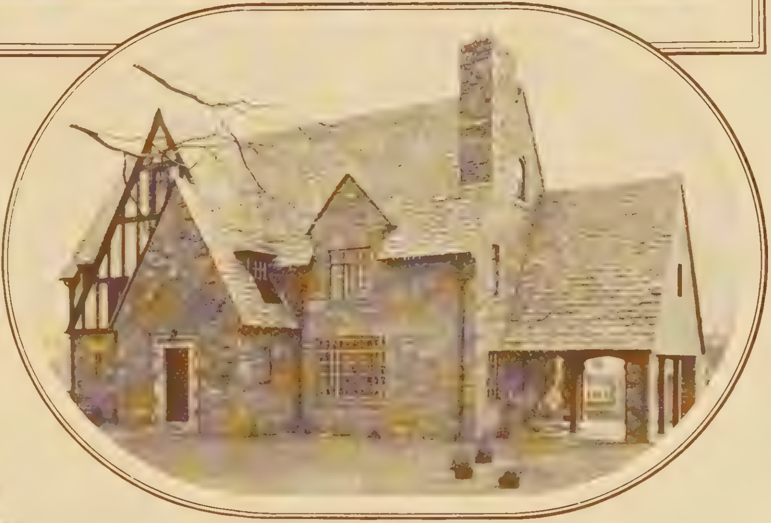
Fenestra
CASEMENT
WINDOWS

INSTALLATION · DETAILS

DETROIT · STEEL · PRODUCTS · CO. · DETROIT · MICH

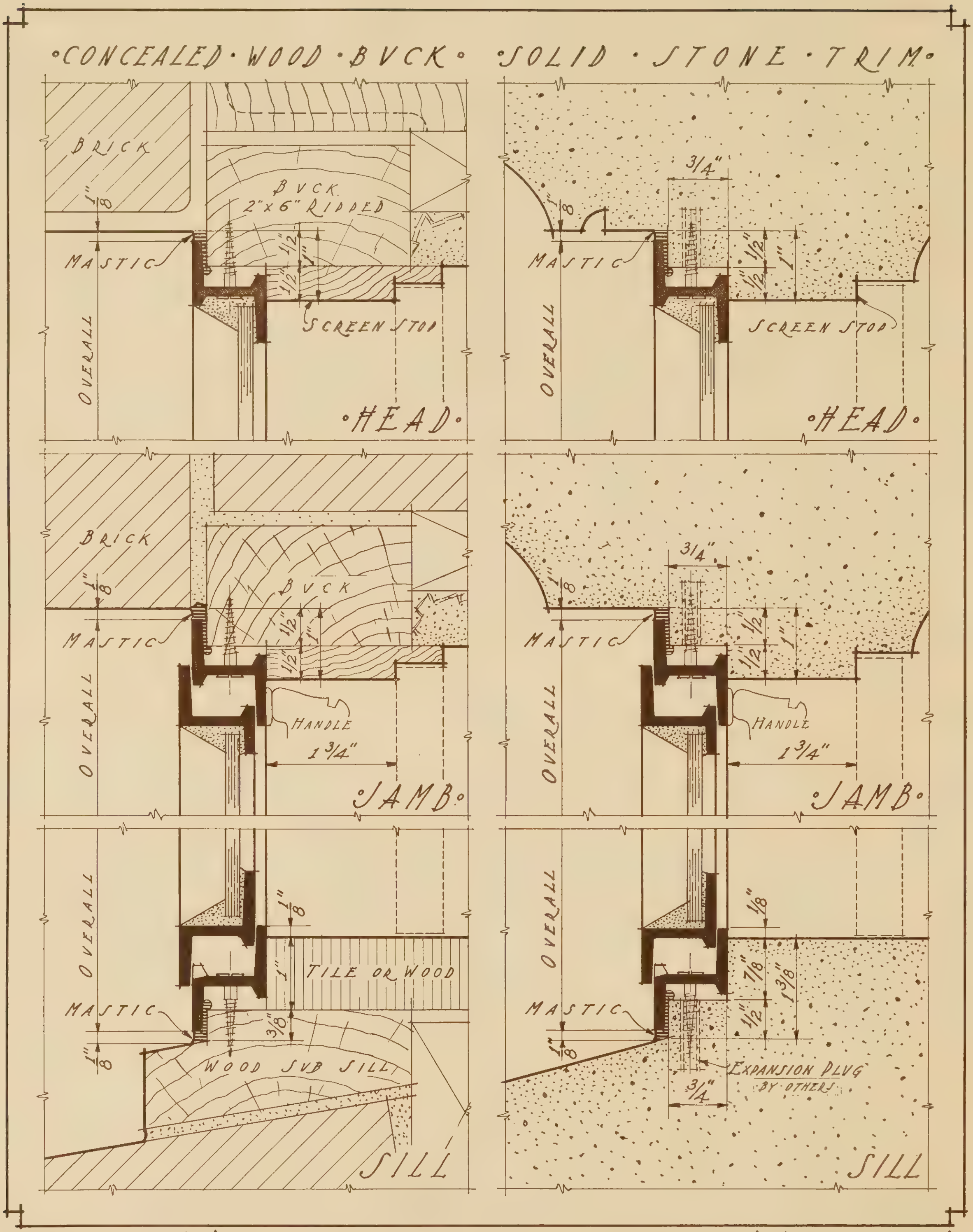
Plate No
A 5003
SCALE – HALF SIZE





Interior and exterior of the residence of Mr. E. Freeman, Merion, Pa. Architects, Warren & Wetmore

Residence of Mr. Wm. P. Schell, Riverdale, N.Y. Architect, W. Stanwood Phillips



Fenestra
CASEMENT
WINDOWS

INSTALLATION · DETAILS
DETROIT STEEL PRODUCTS CO · DETROIT · MICH

Plate No
A 5004
SCALE – HALF SIZE

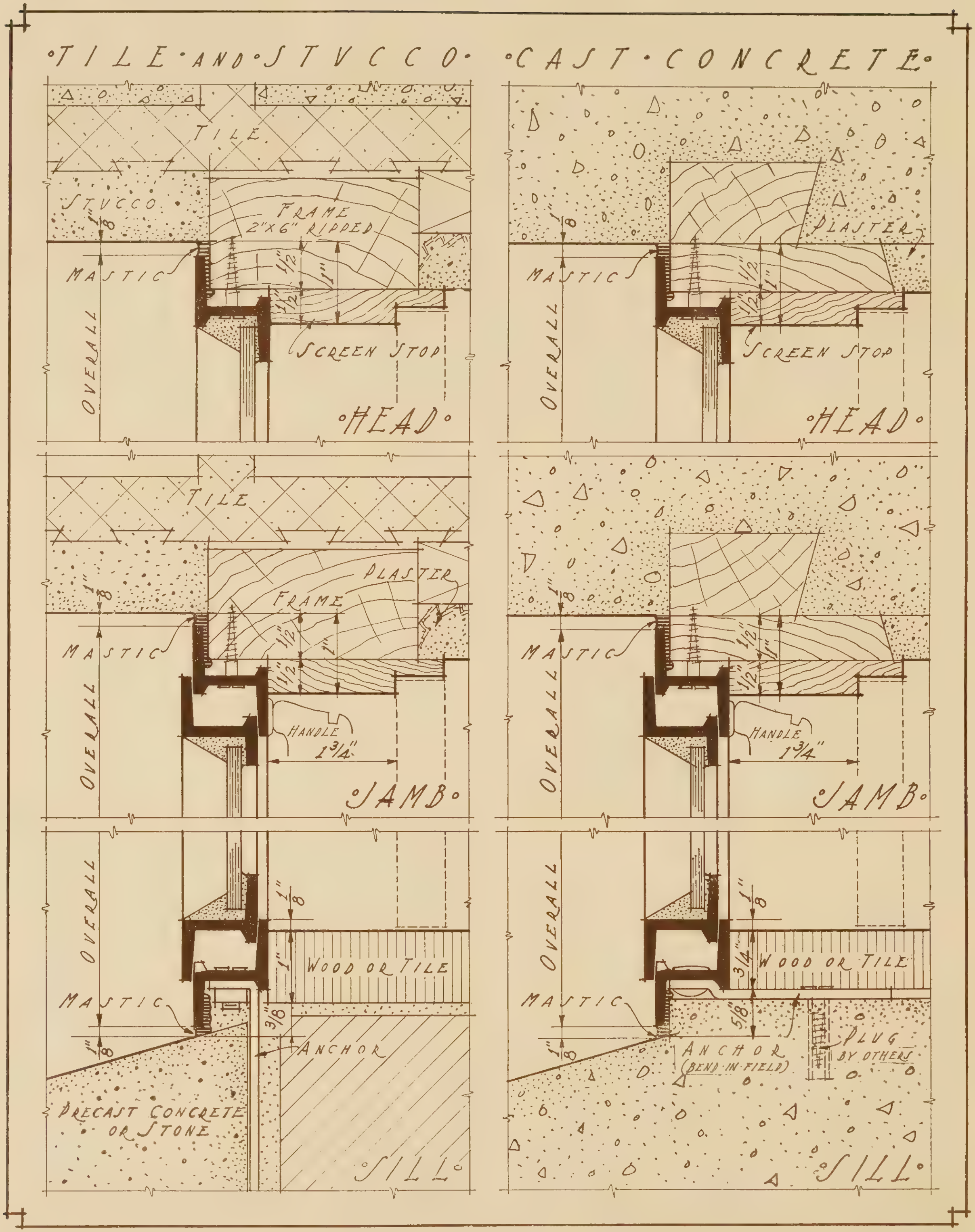
Residence of Mr. Leo M. Meeker, Brentwood Park, Calif.
Architect, E. V. Camomile

Residence of Mr. Charles F. Warrick, Detroit, Mich.
Architects, Herman & Simons

Residence of Mr. Norman Rockwell, Artist
New Rochelle, N. Y.

Residence of Mr. August Bohlen, Indianapolis, Ind.
Architects, D. A. Bohlen & Sons

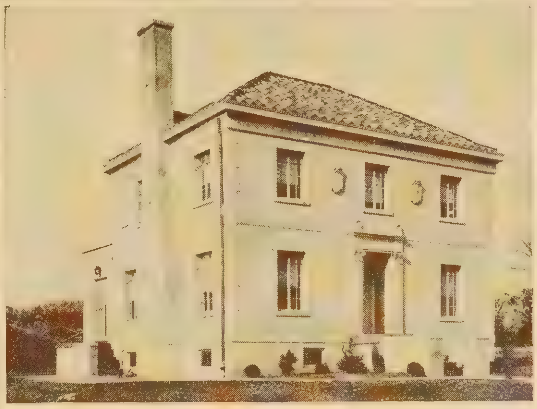
Residence of Mr. A. B. Day, Los Angeles, Calif.
Architect and Builder, B. B. Horner



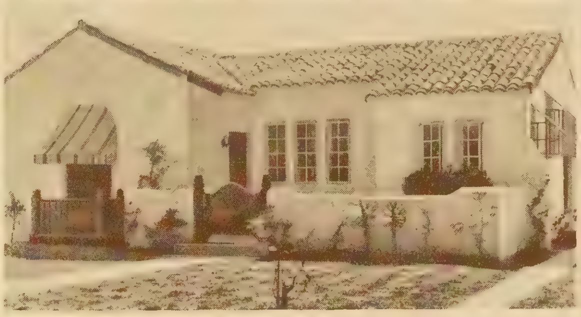
Fenestra
CASEMENT
WINDOWS

INSTALLATION DETAILS
DETROIT STEEL PRODUCTS CO — DETROIT MICH

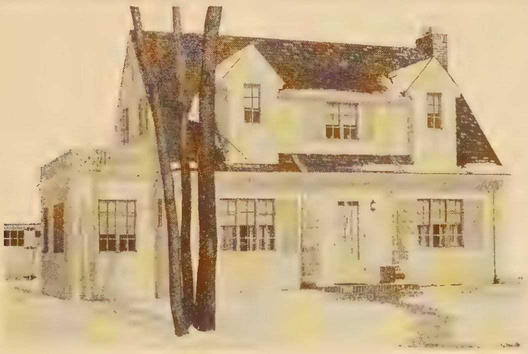
Plate No
A5005
SCALE — HALF SIZE



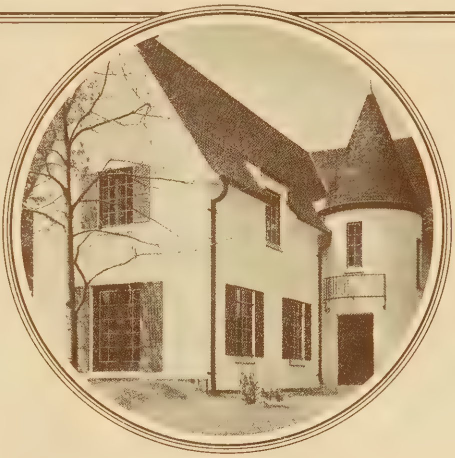
Italian type, residence at Washington, D. C.
Designed and owned by Mr. Irving Murray



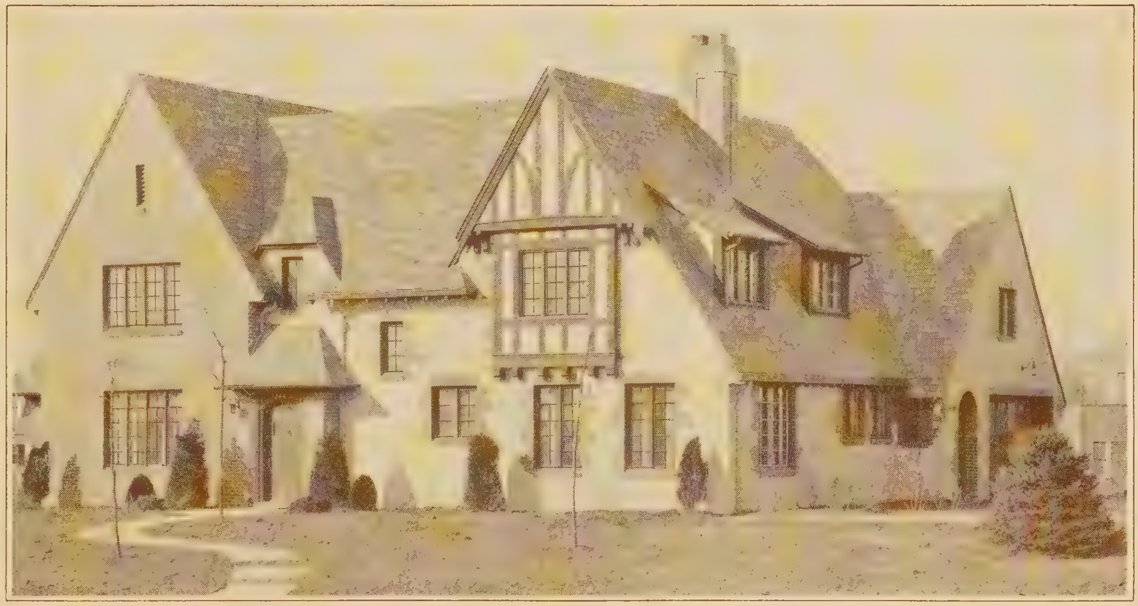
Spanish type, home of Mr. J. Gordon Hussey, Coral Gables, Florida
Architects, C. C. and E. A. Weber



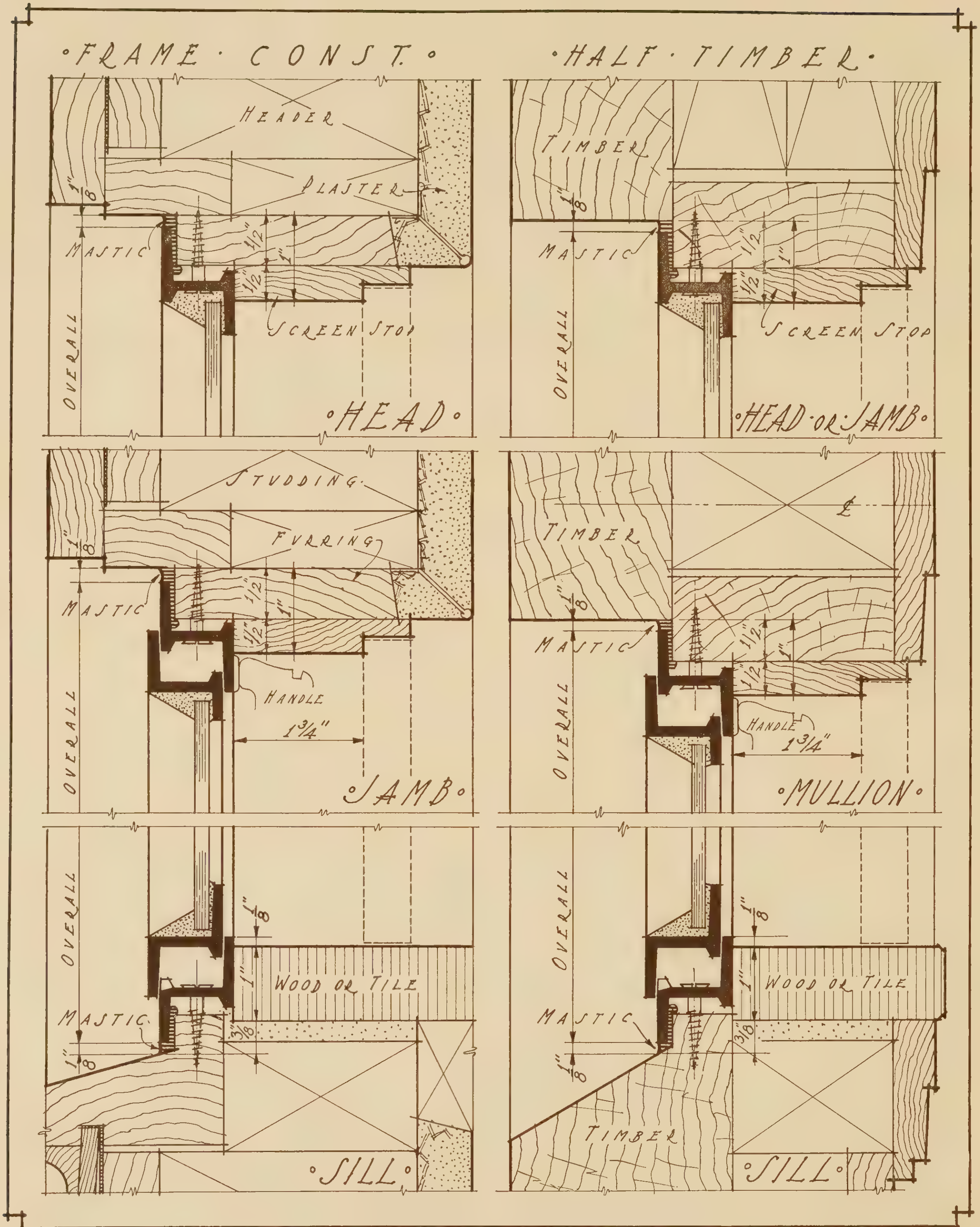
Modified Colonial type, home of Mr. Geo. Coker, Royal Oak, Mich.
Architect and Builder, Glenn E. Routier



French type, home of Mr. William E. Vass, Detroit, Michigan
Architect and Builder, Ernest E. Brown



English type, residence of Mr. G. M. Harttmann, Kansas City, Mo.
Architects, Archer and Gloyd



Fenestra
CASEMENT
WINDOWS

INSTALLATION · DETAILS
DETROIT STEEL PRODUCTS CO · DETROIT · MICH

Plate No
A 5 0 6
SCALE – HALF SIZE

SCREENING *and* SHADING

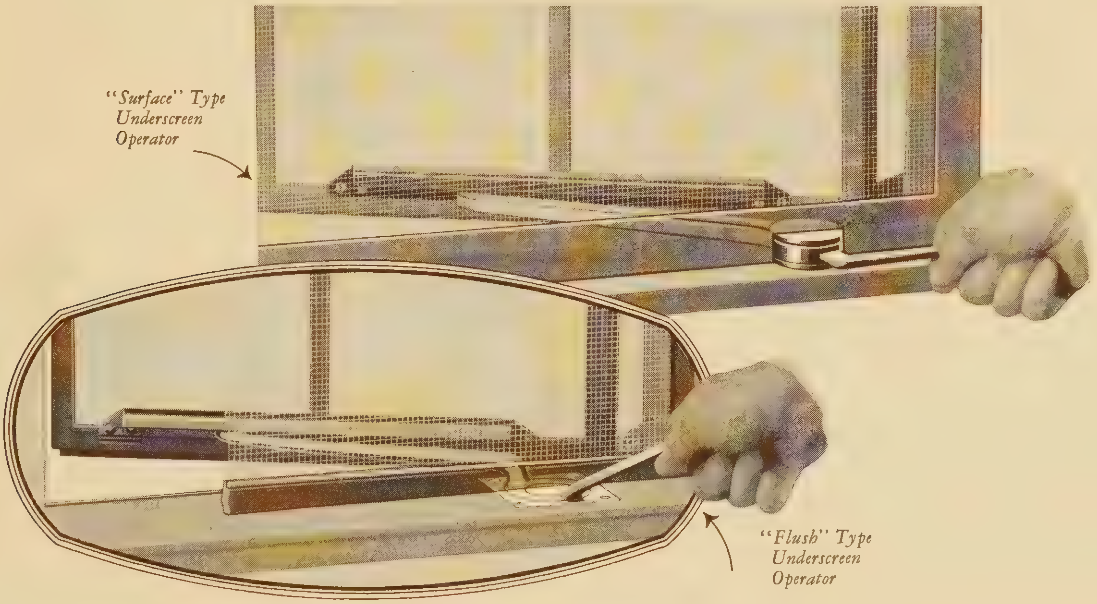
WE DO NOT supply screens, but suggestions for screening and shading are shown below and on pages 18 and 20. As Fenestra Casements always open out, they are screened on the inside. This offers several advantages: Screens are protected, therefore last longer; drapes, curtains and window panes keep clean longer; screens are easily set up and removed or may be left in place the year around.

A screen stop, about 2¾″ wide by ½″ thick, rabbeted to receive the screen, is usually attached just inside the casement around the head and both jambs. This acts as a finish between casement and plaster and keeps the screens back 1¾″ to clear the hardware. Some such stop is always desirable as an inside finish and screen mold and should be provided with the other inside trim.

If wood screens are used, they should be finished to correspond with the interior woodwork. Metal screens are attractive but fairly costly. It is not unusual however, to screen only the movable portions of the windows, instead of the entire opening. Where roll-up screens are to be used, special provision must be made for the screen box at the head at the time the windows are roughed in.

Two types of "Underscreen" operator for Fenestra Casement windows are available at slight extra cost. This operator is so arranged that the movement of a handle inside the screen, moves the casement leaf to any desired position and holds it there. The screen may be stationary, but is preferably side hinged, so that the casement handle is readily accessible. The operator handle is removable or, in Flush Type, may be attached.

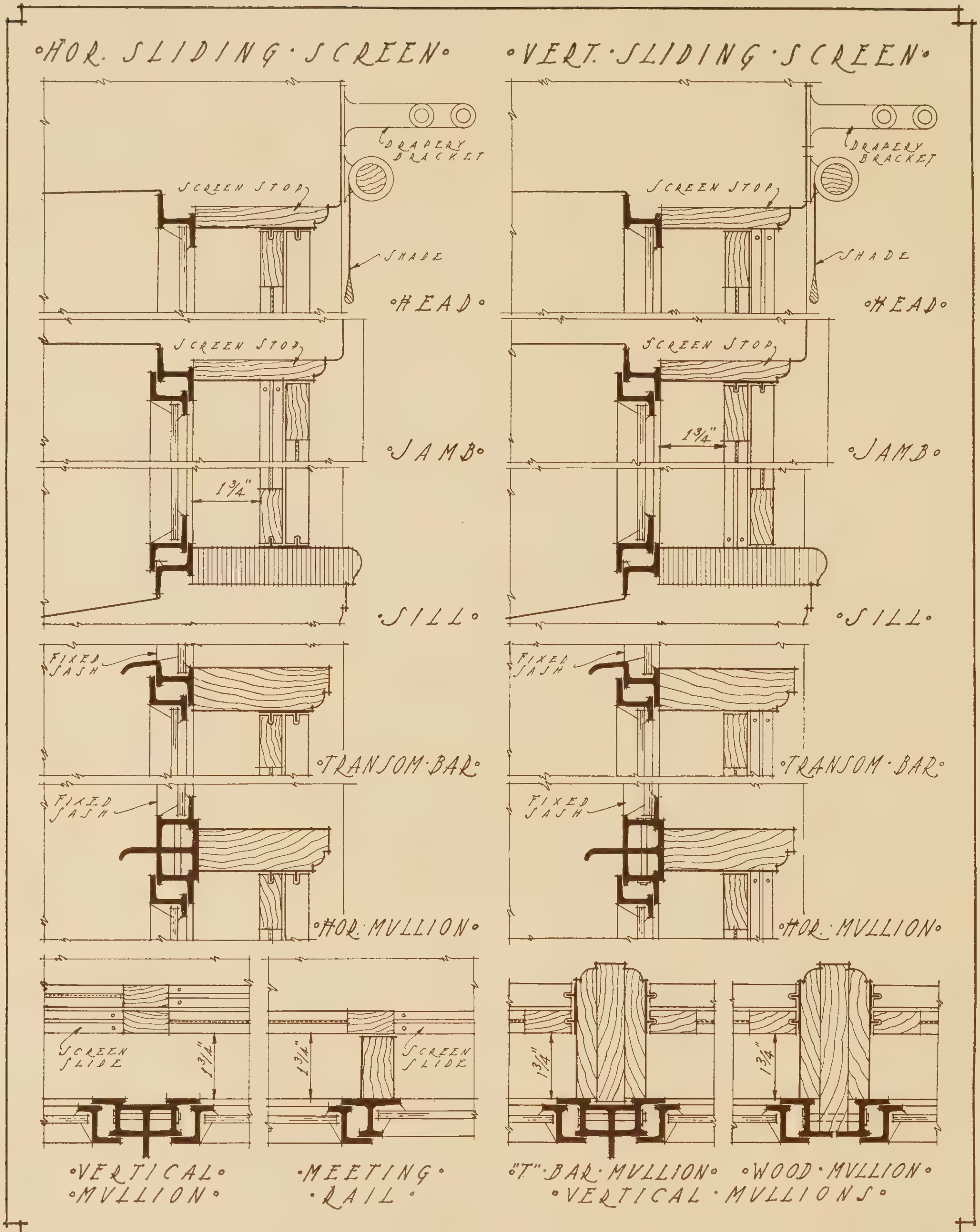
The "Surface" type is suitable for use with wood screens where the sill of the screen may be notched out to accommodate the barrel. This type screws directly to the top of the sill and is easily removable. The "Flush" type is mortised into the window sill so that the screen frame does not need to be notched.


"Surface" Type Underscreen Operator
"Flush" Type Underscreen Operator

The "Surface" type operator is supplied in dull black finish and in bronze. The "Flush" type is supplied in bronze finish only.

Standard roller shade and drapery brackets may be attached as shown on pages 18 and 20. Any good drapery concern can suggest attractive methods of treatment.

Usually the roller shades are omitted in favor of draw curtains, operated by cords. These serve both, as shades and as curtains, and facilitate the use of side hinged screens. Where a valance is desired, full length side hinged screens are not recommended as the swing-in leaves interfere with the drapery. If the casements have a row of fixed lights above the swing leaves, side hinged screens extending only as far as the transom bar may be used satisfactorily.



Fenestra
CASEMENT WINDOWS

SCREENING AND SHADING

DETROIT STEEL PRODUCTS CO DETROIT MICH

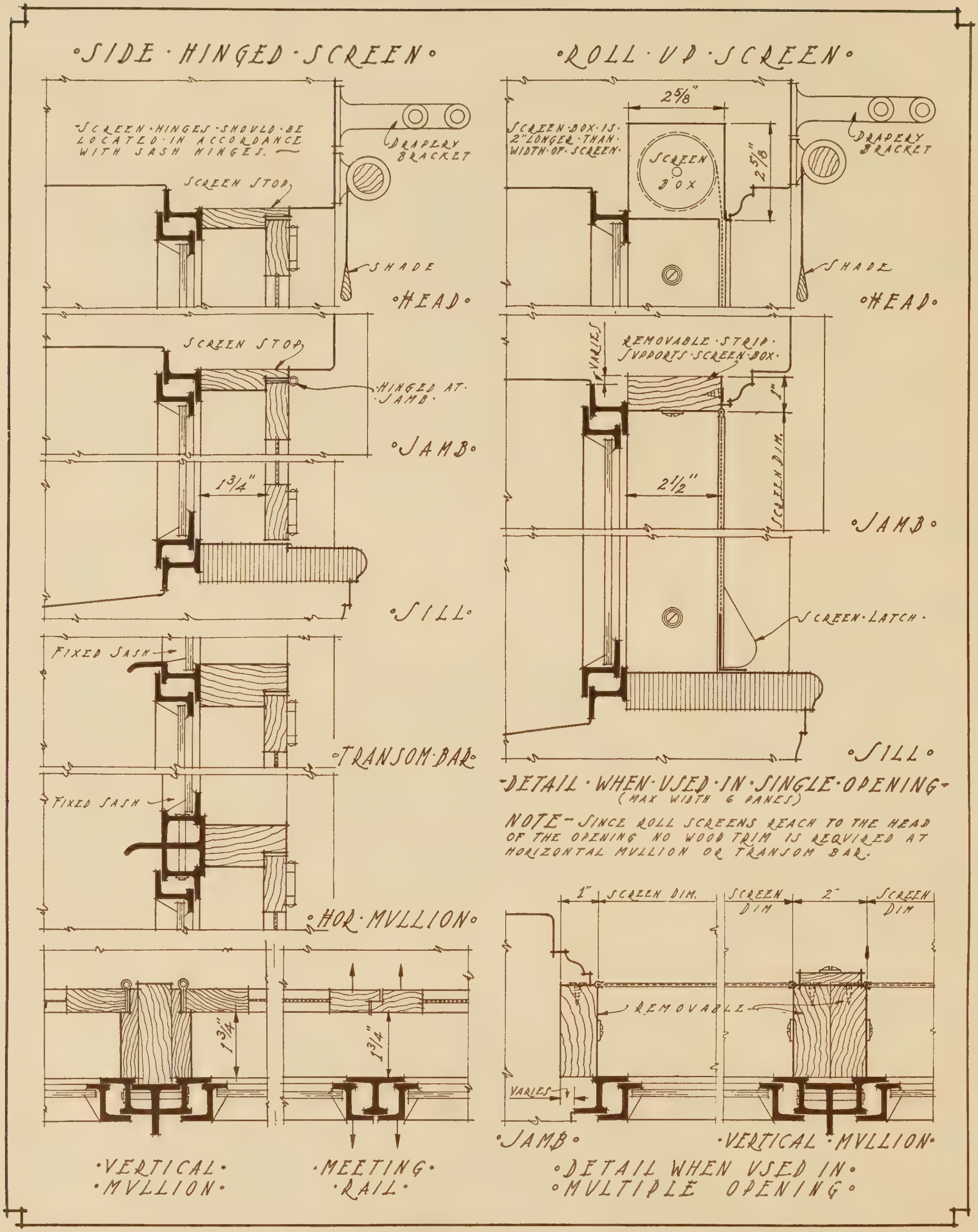
Plate No
A5007
SCALE ~ 3" = 1'-0"

Phillips Terrace, Washington, D.C.
Architect, H. W. Warwick

Beckwith Apartments, Oakland, Calif.
Architect, Julia Morgan

Blind Brook Lodge, Rye, N. Y.
Architects, Van Wart & Wein

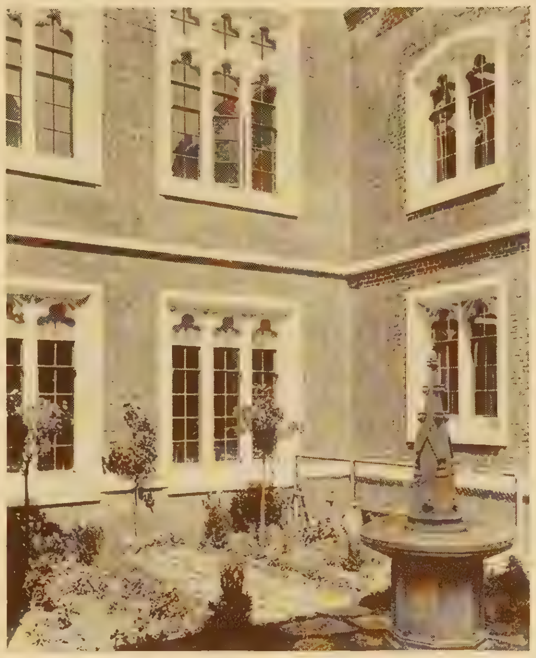
Rivermere Apartments, Bronxville, N. Y.
Architects, Bates & Howe


SIDE·HINGED·SCREEN
SCREEN·HINGES·SHOULD·BE LOCATED·IN ACCORDANCE WITH SASH HINGES.
SCREEN STOP
DRAPERY BRACKET
SHADE
HEAD
SCREEN STOP
HINGED AT JAMB
JAMB
1 3/4"
SILL
FIXED SASH
TRANSOM·BAR
FIXED SASH
HOR·MULLION
1 3/4"
1 3/4"
VERTICAL·MULLION
MEETING·RAIL
ROLL·UP·SCREEN
SCREEN·BOX·IS·2"·LONGER·THAN·WIDTH·OF·SCREEN·
2 5/8"
2 5/8"
SCREEN BOX
DRAPERY BRACKET
SHADE
HEAD
VARIES
REMOVABLE·STRIP· SUPPORTS·SCREEN·BOX·
1"
2 1/2"
SCREEN DIM.
JAMB
SCREEN·LATCH·
SILL
DETAIL·WHEN·USED·IN·SINGLE·OPENING (MAX WIDTH 6 PANES)
NOTE— SINCE ROLL SCREENS REACH TO THE HEAD OF THE OPENING NO WOOD TRIM IS REQUIRED AT HORIZONTAL MULLION OR TRANSOM BAR.
1"
SCREEN DIM.
SCREEN DIM
2"
SCREEN DIM
REMOVABLE
VARIES
JAMB
VERTICAL·MULLION
DETAIL WHEN USED IN MULTIPLE OPENING

Fenestra
CASEMENT
WINDOWS

SCREENING AND SHADING
DETROIT·STEEL·PRODUCTS·CO.·DETROIT·MICH

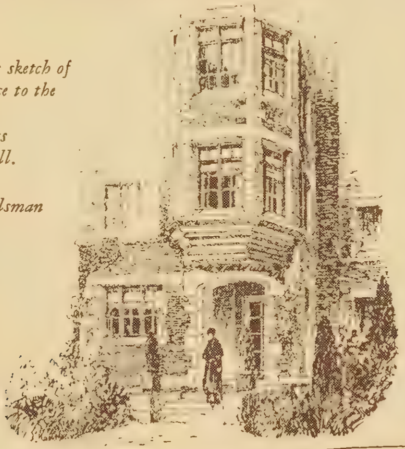
Plate No
A5008
SCALE - 3" = 1'-0"

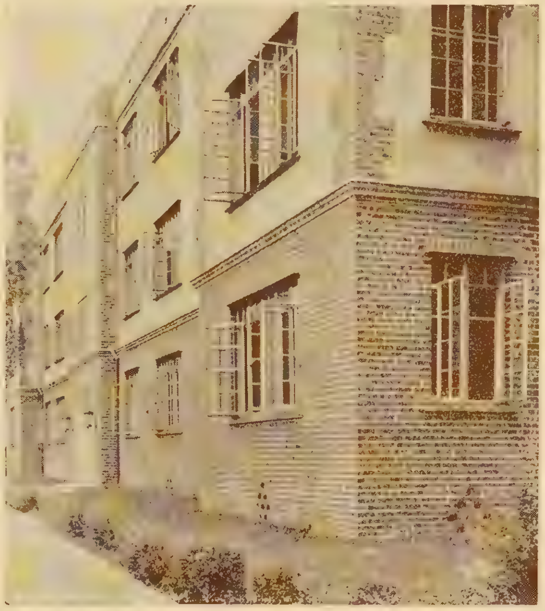


St. Paul's Episcopal Parish House, Oakland, Calif.
Architect, Benjamin G. McDougal

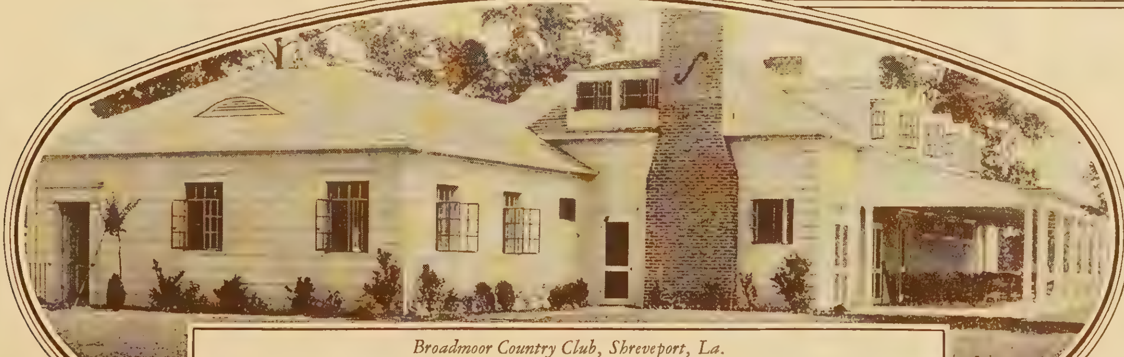
Seward Apartments, Detroit, Mich.
Architect, Louis Kamper

Architect's sketch of
the entrance to the
Rainbow
Apartments
Chicago, Ill.
Architect
H. K. Holsman





Laurel Avenue Apartments, Knoxville, Tenn.
Architects, Barber & McMurry



Broadmoor Country Club, Shreveport, La.
Architect, Clarence W. King

FENESTRA BASEMENT WINDOWS

Fenestra Basement Windows are sold exclusively through dealers. Thousands of dealers in all parts of the country are carrying them in stock ready for immediate delivery. Any responsible dealer can secure them by writing to Detroit Steel Products Company, 2250 East Grand Boulevard, Detroit. In localities where no dealer has been appointed we shall be glad to quote prices direct.

SPECIFICATIONS

All basement windows shall be Fenestra as manufactured by Detroit Steel Products Company, made from solid rolled steel bars, and shall be self contained including all necessary hardware attached.

The sash shall be hinged at the top to open in, hinges to be of the pinless type with sash detachable for convenient removal.

Outside jamb and sill members shall be of one continuous piece and the jamb section shall be designed with a protruding fin for anchorage in the building and with inside and outside legs to guide the mason when laying the wall.

Locks are to be self-centering and equipped with wedge pin locking devices with chain and hanging ring for holding the sash open.

Glass to be inserted from the inside and bedded in a good grade of steel sash putty.

All windows to have one dip coat of gray mineral paint before shipment. Additional coats applied after installation as specified.

DETAILS OF CONSTRUCTION

Compare the light and ventilating areas of wood windows and Fenestra in the same basement opening. Consider also that Fenestra is fire resisting, lasts indefinitely, never warps, swells, sticks, or rattles, is easily screened and improves the appearance of the building

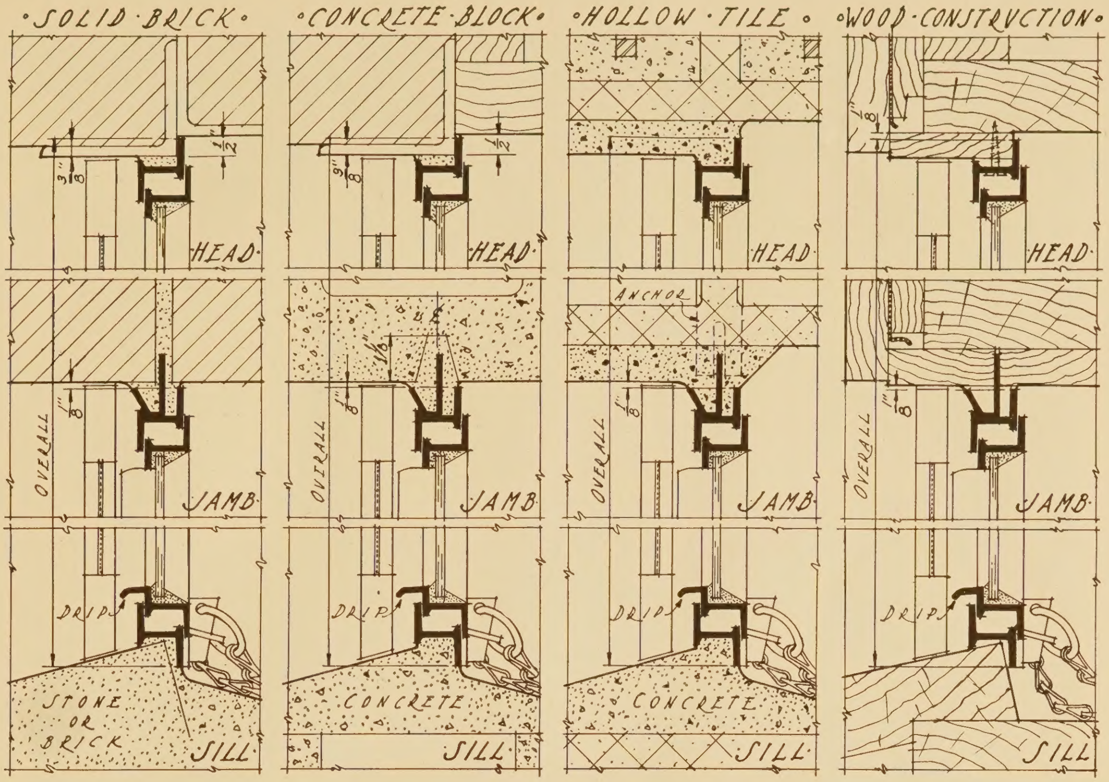
Fenestra basement windows are designed from solid rolled steel bars—jambs and sill being one continuous section to insure rigidity. Anchorage and weathering at the jambs are obtained by means of a continuous fin which projects into the masonry, a short leg on either side serving as a guide for the mason and thus preventing windows being fouled.

The projecting leg of the head member extends up back of the lintel insuring a weatherproof anchorage. Two point, flat contact between frame and swing portion is provided all around the opening. At the sill where special protection against driving rain is required, the sash is turned out and downward to form a drip.

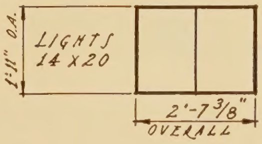
Hinges are solidly riveted in place and are of unique "pinless" design, so arranged that sash may be removed very quickly and easily. No cotter pins or hinge pins are employed but the construction is such that no window can become unhinged accidentally.

The lock is a heavy wedge attached to a sturdy ring on a strong chain, riveted to the sash. The sill member of the sash is notched to ride over a projecting tongue which is tapered and slotted so that as the window closes it is automatically brought to center. The lock therefore accomplishes three purposes: to hold the swinging portion tightly against the frame; to lock the window when closed and to provide a convenient method of holding it open.

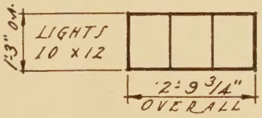
All Fenestra Basement windows are glazed from the inside and are hinged at the top to open in.



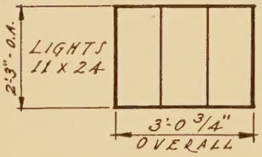
TYPES AND SIZES



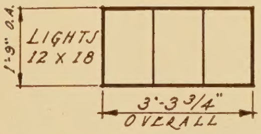
IN CONCRETE BLOCK CONSTRUCTION, FITS OPENING TWO BLOCKS WIDE; THREE BLOCKS HIGH WITH A TROWEL-FINISHED SILL



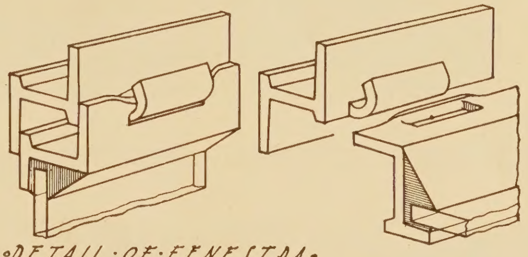
FOR HOUSES WITH LOW GRADE LINES.—WORKS OUT EXCEPTIONALLY WELL IN BRICK CONSTRUCTION.



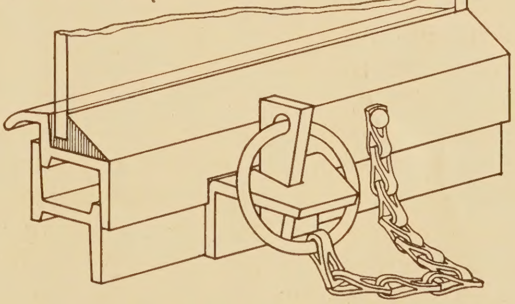
WORKS OUT PARTICULARLY WELL WITH 24" CONCRETE BLOCKS.—SASH IS EQUAL TO ONE AND A HALF BLOCKS WIDE AND TO FOUR BLOCKS HIGH WITH SILL.



WORKS OUT WELL WITH EITHER BRICK OR CONCRETE BLOCK; AND IS THE WINDOW MOST USED IN THE AVERAGE TYPE OF CONSTRUCTION



DETAIL OF FENESTRA DETACHABLE (PINLESS) BUTT

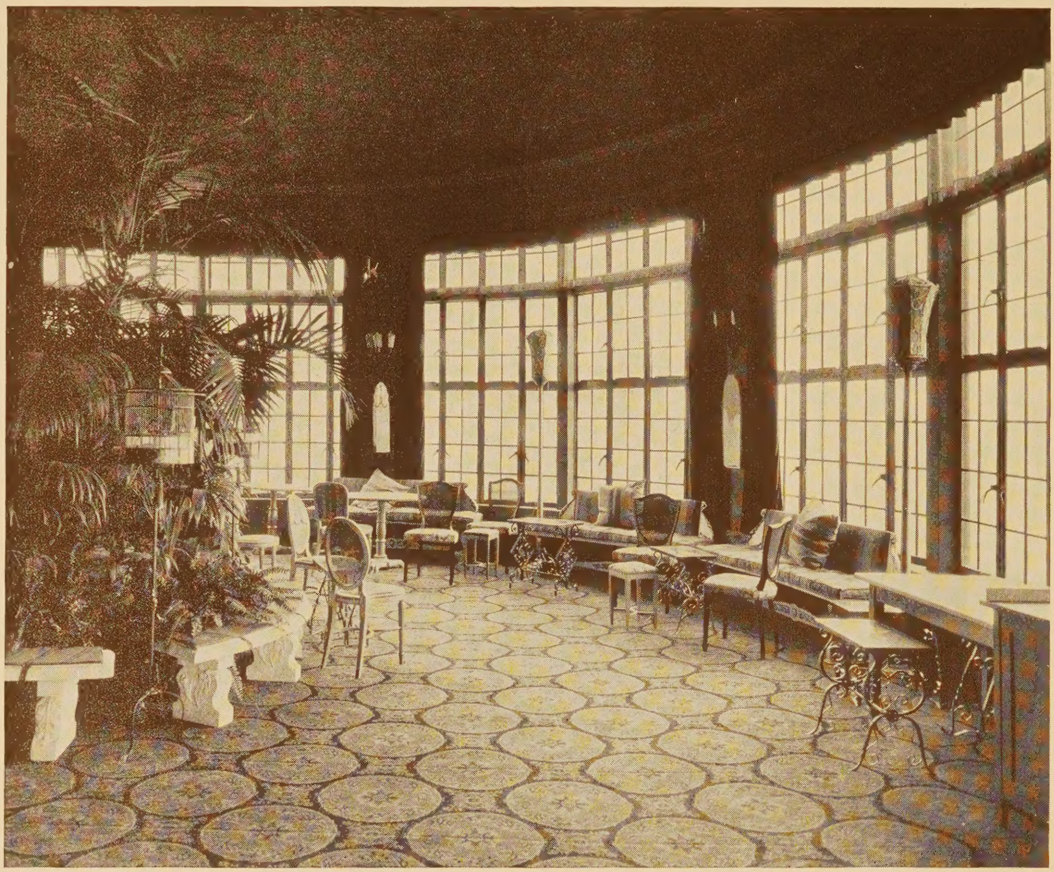


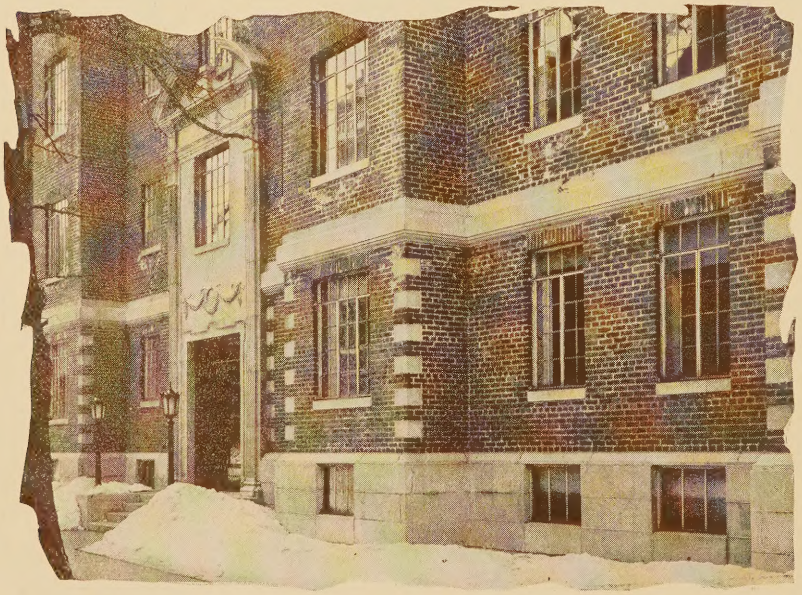
DETAIL OF SELF-CENTERING KEEPER

Fenestra
BASEMENT WINDOWS

INSTALLATION DETAILS
DETROIT STEEL PRODUCTS CO. DETROIT MICH

Plate No
A 5101
SCALE ~ 3"=1'-0"





Roof Garden of the Century Theater
New York City
Architect, Herbert J. Krapp

Fenestra Casement and
Basement windows in
Lowell Manor, Boston, Mass.
Architect, George Nelson Jacobs

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ANCHOR PRESS INC.
DETROIT

Fenestra

RESIDENTIAL WINDOWS

Made by

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